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VideoMAP and VideoSpaceIcon: tools for anatomizing video content

Y Tonomura, A Akutsu, K Otsuji, T Sadakata - Proceedings of the INTERACT'93 and CHI'93 conference on ..., 1993 - portal.acm.org

... there are 600 frames so the total **time line** represents 20 ... is equivalent to the voice print of the **audio** field ... The exact form of **Video** Sign depends on the content ...

Cited by 96 - Related articles - Web Search - All 4 versions

Composition and search with a video algebra- ► purdue.edu [PDF]

R Weiss, A Duda, DK Gifford - IEEE multimedia, 1995 - ieeexplore.ieee.org

... Figure 3. A **timeline** editor such as this artificially created example often provides tracks for drag-and- drop arrangement of **video** and **audio** clips, plus ...

Cited by 155 - Related articles - Web Search - All 8 versions

A digital on-demand video service supporting content-based queries- ► psu.edu [PDF]

TDC Little, G Ahanger, RJ Folz, JF Gibbon, FW ... - Proceedings of the first ACM international conference on ..., 1993 - portal.acm.org

... In this case, temporal intervals and relationships are described by a **timeline** representation in an unstructured format, or by a TPN in a ... scene **audio** **video** ...

Cited by 138 - Related articles - Web Search - All 12 versions

Content-based access to algebraic video- ► mit.edu [PDF]

R Weiss, A Duda, DK Gifford - Multimedia Computing and Systems, 1994., Proceedings of the ..., 1994 - ieeexplore.ieee.org

... are based on two distinct paradigms: **timelines** and scripts ... In the **timeline** ap- proach, **video** and **audio** ... annotate **video** streams represented in a Media **Time Line**. ...

Cited by 88 - Related articles - Web Search - All 5 versions

Video modeling using strata-based annotation

MS Kankanhalli, TS Chua - IEEE Multimedia, 2000 - ieeexplore.ieee.org

... **Time Line** ... identification Classifying and segmenting text proves useful for information indexing and retrieval as well as identifying **audio** and **video** topics ...

Cited by 23 - Related articles - Web Search - BL Direct - All 6 versions

CVEPS-a compressed video editing and parsing system- ► columbia.edu [PDF]

J Meng, SF Chang - Proceedings of the fourth ACM international conference on ..., 1997 - portal.acm.org

... work has pre- sented techniques for manipulation of both compressed image and **video** [7,8], compressed image **feature extraction** [6], and **video** scene analysis ...

Cited by 101 - Related articles - Web Search - All 12 versions

An annotation engine for supporting video database population- ► bu.edu [PDF]

M Carrer, L Ligresti, G Ahanger, TDC Little - Multimedia Tools and Applications, 1997 - Springer

... We include the concept of **timeline** so that content ... scene, or segment by analyzing the **time-line** boundaries. Consider the domain of educational **video** for this ...

Cited by 43 - Related articles - Web Search - BL Direct - All 7 versions

Content-based video browsing and retrieval

HJ Zhang - Handbook of Internet and multimedia systems and applications, 1999 - books.google.com

... similar to that of image **feature extraction**, but extended ... motion and subtitles of **video** shots are ... TF-FDF technique to skim **audio**; • Sequence characterization ...
[Cited by 31](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Video cataloger system with synchronized encoders

R Jain, C Fuller, MM Gorkani, B Horowitz, RD ... - US Patent App. 09/134,497, 1998 - Google Patents
... 4. Log- ging and Encoding, 5. Example **Timeline**, 6. Metadata ... 8. Cata- loger Architecture,
9. Extensible **Video** Engine Architecture ... **Audio** Feature Extractors, 11. ...

[Cited by 10](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

Violone: Video retrieval by motion example

A Yoshitaka, Y Hosoda, M Yoshimitsu, M Hirakawa, T ... - Journal of Visual languages and Computing, 1996 - Elsevier

... to use various types of data (e . g . **video** and **audio**) with a ... points to specify the size of the object are indicated on the **timeline** The pieces of **video** data ...

[Cited by 25](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 2 versions](#)

Key authors: **R Weiss** - **T Little** - **A Duda** - **D Gifford** - **G Ahanger**

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VideoMAP and VideoSpaceIcon: tools for anatomizing video content

Full text [Pdf \(1.46 MB\)](#)

Source [Conference on Human Factors in Computing Systems archive](#)
[Proceedings of the INTERACT '93 and CHI '93 conference on Human factors in computing systems table of contents](#)
 Amsterdam, The Netherlands
 Pages: 131 - 136
 Year of Publication: 1993
 ISBN: 0-89791-575-5

Authors [Yoshinobu Tonomura](#) NTT Human Interface Laboratories, 1-2356 Take, Yokosuka, Kanagawa, 235 Japan
[Akihito Akutsu](#) NTT Human Interface Laboratories, 1-2356 Take, Yokosuka, Kanagawa, 235 Japan
[Kiyotaka Otsuji](#) NTT Human Interface Laboratories, 1-2356 Take, Yokosuka, Kanagawa, 235 Japan
[Toru Sadakata](#) NTT Human Interface Laboratories, 1-2356 Take, Yokosuka, Kanagawa, 235 Japan

Sponsors NGI : Dutch Computer Soc - Nederlands Genootschap voor Informatica
 Human Factors Soc : Human Factors Society
 IEEE-CS : Computer Society
 IFIP : International Federation for Information Processing
 SIGCAPH: ACM SIGCAPH Computers and the Physically Handicapped
 SIGGRAPH: ACM Special Interest Group on Computer Graphics and Interactive Techniques
 SIGGROUP: ACM Special Interest Group on Supporting Group Work
 Austrian Comp Soc : Austrian Computer Society
 SIGCHI: ACM Special Interest Group on Computer-Human Interaction

Publisher ACM New York, NY, USA

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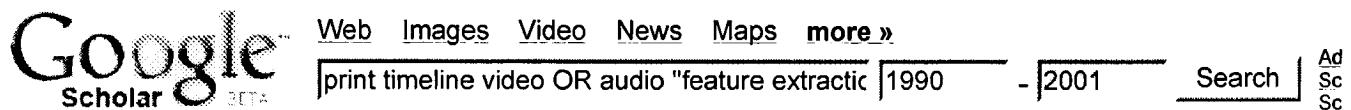
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↑ ABSTRACT

A new approach to interacting with stored video is proposed. The approach utilizes VideoMAP and VideoSpaceIcon. VideoMAP is the interface that shows the essential video features in an easy to perceive manner. VideoSpaceIcon represents the temporal and spatial characteristics of a video shot as an intuitive icon. A video indexing method supports both tools. These tools allow the user's creativity to directly interact with the essential features of each video by offering spatial and temporal clues. This paper introduces the basic concept and describes prototype versions of the tools as implemented in a video handling system. VideoMAP and VideoSpaceIcon are effective for video handling functions such as video content analysis, video editing, and various video applications which need an intuitive visual interface.



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VideoMAP and VideoSpaceIcon: tools for anatomizing video content

Y Tonomura, A Akutsu, K Otsuji, T Sadakata - Proceedings of the INTERACT'93 and CHI'93 conference on ..., 1993 - portal.acm.org

... there are 600 frames so the total **time line** represents 20 ... Sign is equivalent to the voice **print** of the **audio** ... The exact form of **Video** Sign depends on the content ...

Cited by 96 - Related articles - Web Search - All 4 versions

Visual summary of audio-visual program features

D Li, JD Zimmerman, N Dimitrova - US Patent App. 10/024,778, 2001 - Google Patents

... The viewing guide is an electronic version of a **print** guide and ... a program map 500, which summarizes the content of a **video** program along a **timeline**. ...

Web Search - All 4 versions

Software research for video libraries and archives

P Aigrain - IFLA journal, 1995 - ifl.sagepub.com

... IFLA Journal DOI: 10.1177/034003529502100309 1995; 21; 198 IFLA Journal Philippe Aigrain Software Research for **Video** Libraries and Archives ... **video** databases. ...

Cited by 2 - Related articles - Web Search - BL Direct - All 2 versions

A new SIMD computer vision architecture with image algebra programming environment

RD Jackson, PC Coffield, JN Wilson - IEEE Aerospace Conference, 1997. Proceedings., 1997 - ieeexplore.ieee.org

... Register forms and convert hand **print** characters to ASCII ... How-ever, because the execution **timeline** is not par ... primarily because of the short **timelines** of most ...

Cited by 8 - Related articles - Web Search - BL Direct - All 3 versions

Efficient and reliable digital media archive for content-based retrieval

SP Liou, R Hjelsetvold, R Depommier, A Hsu - Multimedia Systems, 1999 - Springer

... that relies on an integrated **feature extraction**/object recognition ... created intention-ally by **video/film** directors ... a splicer and an optical **printer**, while shot ...

Cited by 9 - Related articles - Web Search - BL Direct - All 3 versions

[PDF] ► Multimedia authoring, development environments, and digital video editing

F Makedon, JW Matthews, CB Owen, SA Rebelsky - 1994 - citeseerx.ist.psu.edu

... research papers, collaborative communications facilities, **printing**, annotation, or ... map them onto a **timeline** and create ... **audio** tracks in a **time-line** fashion, at ...

Cited by 2 - Related articles - View as HTML - Web Search - Library Search - All 7 versions

[PDF] ► Performance evaluation of image segmentation and texture extraction methods in scene analysis

M Sharma - MPhil in Computer Science thesis, University of Exeter, 2001 - cecs.pdx.edu

... 4.4 SUSAN 4.5 Texture based **feature extraction** 108 4.5.1 Autocorrelation 109 ...

110 Table 5.1 Details of **feature extraction** methods used on MeasTex data. 119 ...

Cited by 16 - Related articles - View as HTML - Web Search - All 10 versions

[PDF] ► An intelligent content-based image retrieval system based on color, shape and spatial relations

TK Shih, JY Huang, CS Wang, JC Hung, CH Kao - PROCEEDINGS-NATIONAL SCIENCE COUNCIL REPUBLIC OF CHINA PART ..., 2001 - citeseerx.ist.psu.edu

... Engine supports querying of still image and **video** stream (Bach ... well as 3-D objects, which treat a **time line** as the ... CMY color space is used for color **printing**. ...

Cited by 11 - Related articles - View as HTML - Web Search - BL Direct - All 5 versions

[BOOK] **Video database systems: issues, products, and applications**

AK Elmagarmid - 1997 - books.google.com

... The automatic **feature extraction** can usually be done by using image ... **Audio** visual content: — Ai dio: Some **video** data contain an **audio** track, like a ...

Cited by 69 - Related articles - Web Search - Library Search - All 3 versions

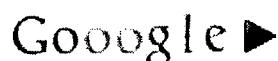
System for and method of capture, analysis, management, and access of disparate types and sources of ...

R Buinevicius, K Pendyala... - US Patent App. 09/995,292, 2001 - Google Patents

... can include face ID, voice **print**, geo-coding ... present or view, navigate, **timeline** compare, annotate ... including metrics such as **video**, **audio**, speech, biometrics, geo ...

Web Search - All 2 versions

Key authors: Y Tonomura - A Akutsu - K Otsuji - T Sadakata - A Elmagarmid



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Multimedia authoring, development environments, and digital video editing.

Source Technical Report: PCS-TR94-231
Year of Publication: 2001

Authors [Fillia Makedon](#)
[James Matthews](#)
[Charles B. Owen](#)
[Samuel A. Rebelsky](#)

Publisher Dartmouth College Hanover, NH, USA

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1

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↑ ABSTRACT

Multimedia systems integrate text, audio, video, graphics, and other media and allow them to be utilized in a combined and interactive manner. Using this exciting and rapidly developing technology, multimedia applications can provide extensive benefits in a variety of arenas, including research, education, medicine, and commerce. While there are many commercial multimedia development packages, the easy and fast creation of a useful, full-featured multimedia document is not yet a straightforward task. This paper addresses issues in the development of multimedia documents, ranging from user-interface tools that manipulate multimedia documents to multimedia communication technologies such as compression, digital video editing and information retrieval. It outlines the basic steps in the multimedia authoring process and some of the requirements that need to be met by multimedia development environments. It also presents the role of video, an essential component of multimedia systems and the role of programming in digital video editing. A model is described for remote access of distributed video. The paper concludes with a discussion of future research directions and new uses of multimedia documents.

↑ CITED BY

[Roberto Willrich](#) , [Pierre De Saqui-Sannes](#) , [Patrick Sénac](#) , [Michel Diaz](#), [Multimedia Authoring with Hierarchical Timed Stream Petri Nets and Java](#), [Multimedia Tools and Applications](#), v.16 n.1-2, p.7-27, January-February 2002

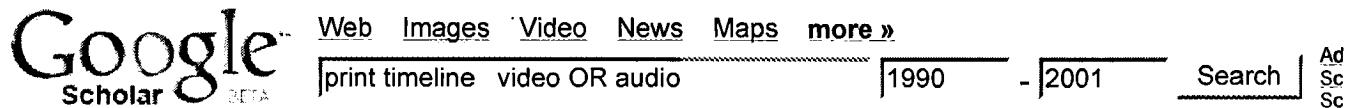
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Samuel A. Rebelsky: [colleagues](#)



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[BOOK] Timeline Followback (TLFB) users' guide

LC Sobell, MB Sobell, A Tools - 1994 - camh.net

... Also available is the **Timeline FollowBack video**, which demonstrates the techniques professional researchers and clinicians need to conduct TLFB interviews and ...

Cited by 67 - Related articles - Cached - Web Search

Non-timeline, non-linear digital multimedia composition method and system

I Petelycky, M Harris, S Northmore, G Elliot, D ... - US Patent 6,204,840, 2001 - Google Patents

... 16 DISPLAY DEVICE -17 MASS STORAGE -18 PRINTING DEVICE -21 ... and apparatus utilizing non-linear **time-line** based composition ... in a non-temporal or **timeline** fashion ...

Cited by 17 - Related articles - Web Search - All 5 versions

[PDF] ► A multi-view intelligent editor for digital **video** libraries

BA Myers, JP Casares, S Stevens, L Dabbish, D ... - 2001 - cs.cmu.edu

... composition will look like, and a "print preview" view ... In the **time-line** view, however, the effect of ... clicking depends on the specific **timeline** within the ...

Cited by 23 - Related articles - View as HTML - Web Search - Library Search - All 14 versions

Communication technology **timeline**

D Brown - Communication technology update, 2000 - books.google.com

... of newer forms of digital **audio** recordings. ... Figure 2.1 Communication Technology **Timeline**

Source: Technology Futures ... **PRINT MEDIA** The US **printing** industry is the ...

Cited by 5 - Related articles - Web Search

... obtained from different media sources which includes **video**, **audio**, and text transcriptions

AS Liaguno, AF Connor... - US Patent 5,729,741, 1998 - Google Patents

... station, which is interfaced with a **printer** and an ... atten- **video** tape image frames, a **time line** containing a ... track associated with toe (recorded **video** and **audio** ...

Cited by 30 - Related articles - Web Search - All 2 versions

Method and apparatus for **video** editing and realtime processing

RA Jackson, RA Frasier, B Hensler, DE Lake, R ... - US Patent 5,640,320, 1997 - Google Patents

... a 45 film processor prepares the final **print**, sequence of ... scenes are stored 60 segment along the **timeline**, no **video** ... of the clips along the **time line**), the user ...

Cited by 8 - Related articles - Web Search - All 2 versions

Interactive **video** composition and presentation systems

CT Rutherford, NS Frank - US Patent 4,893,256, 1990 - Google Patents

... 14 Claims, 9 Drawing Sheets **TIME LINE CONTROLLER LOGIC ANALYZER EVENT LOGGING** ...

FIG.2 OUTLINE FOR VISION E20 (MEDIA TYPES) **VIDEO WITH AUDIO** (I50I5-I5500 ...

Cited by 13 - Related articles - Web Search - All 4 versions

Video disk recorder generations

R Rassoul, P Technol - Broadcasting Convention, 1997. International, 1997 - ieeexplore.ieee.org

... set of editing tools in the '**timeline**' user interface ... movie out, write out a file or **print** to removable ... a presentation, featuring full motion **video** and **audio** ...

Web Search - BL Direct - All 3 versions

Video Mosaic: Laying out time in a physical space- ►Iri.fr [PDF]

W Mackay, D Pagani - Proceedings of the second ACM international conference on ..., 1994 - portal.acm.org
... edit **video** versions from each storyboard and **print** them for ... components comprise the minimum necessary for **Video** Mosaic ... could be added with a playable **audio** track ...

Cited by 72 - Related articles - Web Search - All 12 versions

An audio processing system

W Bryans, M Kirwan - EP Patent 1,079,313, 2001 - freepatentsonline.com
... word processing application with the embedded **time line** references to ... allow user input of a **timeline** reference in ... workstation 17, a transcript **printer** 18, and ...
Web Search - All 3 versions

Key authors: L Sobell - W Mackay - D Bohrman - M Sobell - A Tools

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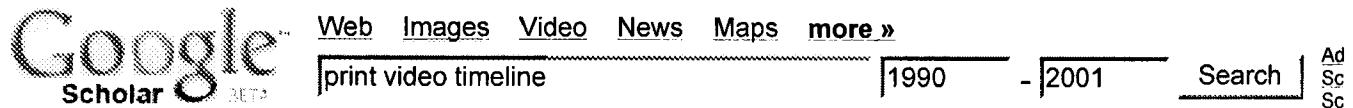
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... types of information obtained from different media sources which includes video, audio, and text ...

AS Liaguno, AF Connor... - US Patent 5,729,741, 1998 - Google Patents

... a mechanism for providing a **time line** index SOURCES ... text, still images, animation, graphics, **video**, and audio ... data base files, hard copy **print** media, parameter ...

Cited by 30 - Related articles - Web Search - All 2 versions

[BOOK] Timeline Followback (TLFB) users' guide

LC Sobell, MB Sobell, A Tools - 1994 - camh.net

... Also available is the **Timeline** FollowBack **video**, which demonstrates the techniques professional researchers and clinicians need to conduct TLFB interviews and ...

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Video Mosaic: Laying out time in a physical space- ► Iri.fr [PDF]

W Mackay, D Pagani - Proceedings of the second ACM international conference on ..., 1994 - portal.acm.org

... ideas. When she is satisfied with each, she asks **Video** Mosaic to edit **video**

versions from each storyboard and **print** them for her. In ...

Cited by 72 - Related articles - Web Search - All 12 versions

Non-timeline, non-linear digital multimedia composition method and system

I Petelycky, M Harris, S Northmore, G Elliot, D ... - US Patent 6,204,840, 2001 - Google Patents

... 16 DISPLAY DEVICE -17 MASS STORAGE -18 PRINTING DEVICE -21 ... Each layer of the **video** composition method is presented ... images in a time sequence or **timeline** order. ...

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VideoMAP and VideoSpacelcon: tools for anatomizing **video** content

Y Tonomura, A Akutsu, K Otsuji, T Sadakata - Proceedings of the INTERACT'93 and CHI'93 conference on ..., 1993 - portal.acm.org

... In this case, there are 600 frames so the total **time line** represents 20 seconds.

The intensity ... **Video** Sign is equivalent to the voice **print** of the audio field. ...

Cited by 96 - Related articles - Web Search - All 4 versions

Anecdote: a multimedia storyboarding system with seamless authoring support- ► psu.edu

[PDF]

K Harada, E Tanaka, R Ogawa, Y Hara - Proceedings of the fourth ACM international conference on ..., 1997 - portal.acm.org

... of execution of the scenario, but not sufficient for media synchronization with **video** and audio being played throughout more than one pages. **Timeline** format ...

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Method and apparatus for **video** editing and realtime processing

RA Jackson, RA Frasier, B Hensler, DE Lake, R ... - US Patent 5,640,320, 1997 - Google Patents

... a 45 film processor prepares the final **print**, sequence of ... channels output from a displayed program **timeline**, storage subsystem ... or frame of date in **video** 5. The ...

Cited by 8 - Related articles - Web Search - All 2 versions

[PDF] ► A multi-view intelligent editor for digital **video** libraries

BA Myers, JP Casares, S Stevens, L Dabbish, D ... - 2001 - cs.cmu.edu

... will look like, and a "print preview" view ... spatial versus temporal aspects of the video (a slideshow is highly temporal, a **timeline** highly spatial ...

[Cited by 23](#) - Related articles - View as HTML - Web Search - Library Search - All 14 versions

Non-Linear Video Editing

R Osgood - Broadcast Technology Update, 1997 - books.google.com

... most **video** editors would probably have laughed at the term" **print** to tape ... Panasonic's Postbox uses one **video timeline** to display all **video** clips in the sequence ...

[Web Search](#)

Video disk recorder generations

R Rassool, P Technol - Broadcasting Convention, 1997. International, 1997 - ieeexplore.ieee.org

... set of editing tools in the '**timeline**' user interface ... composed a presentation, featuring full motion **video** and audio ... You select **PRINT** and the job is sent off ...

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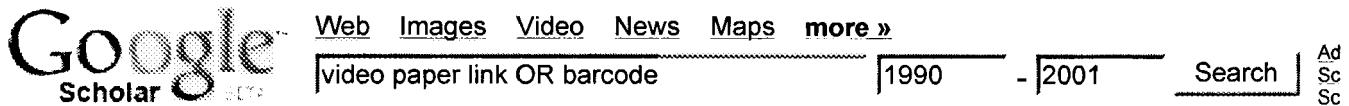
Key authors: **W Mackay** - **Y Tonomura** - **L Sobell** - **D Pagani** - **D Bohrman**

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Analysis of video transmission over lossy channels- ► poly.edu [PDF]

K Stuhlmuller, N Farber, M Link, B Girod - IEEE Journal on Selected Areas in Communications, 2000 - ieeexplore.ieee.org

... and channel coding that is also discussed in this **paper**. ... This approach is indeed justified if **video** is added ... 6]) will include a flexible **link** adaptation where ...

Cited by 298 - Related articles - Web Search - BL Direct - All 14 versions

Augmenting reality: Adding computational dimensions to paper

W Mackay, G Velay, K Carter, C Ma, D Pagani - Communications of the ACM, 1993 - portal.acm.org
... between the spatial and temporal views of the **video**. ... place the word "New" under the camera, **link** a new ... to capture notes scrib- bled on **paper** storyboard elements ...

Cited by 61 - Related articles - Web Search - BL Direct - All 3 versions

Searching through cyberspace: The effects of link display and link density on information retrieval ...

K Khan, C Locatis - Journal of the American Society for Information Science, 1998 - interscience.wiley.com
... Low **link** densities displayed in list format produced the ... control and practice on learning from interactive **video**. **Paper** presented at the annual meeting of the ...

Cited by 52 - Related articles - Web Search - BL Direct - All 10 versions

Evolving video skims into useful multimedia abstractions- ► cmu.edu [PDF]

MG Christel, MA Smith, CR Taylor, DB Winkler - Proceedings of the SIGCHI conference on Human factors in ..., 1998 - portal.acm.org

... A **link**-grammar parser developed at Carnegie Mellon identifies noun phrases within the ... **PAPERS** carefully selected from the **video** and independently validated. ...

Cited by 175 - Related articles - Web Search - BL Direct - All 11 versions

Video Mosaic: Laying out time in a physical space- ► Iri.fr [PDF]

W Mackay, D Pagani - Proceedings of the second ACM international conference on ..., 1994 - portal.acm.org
... different linear sequences and insert or delete **video** clips with ease. However, **paper** storyboards pose some problems: q No **link** between **paper** and **video**. ...

Cited by 72 - Related articles - Web Search - All 12 versions

PaperLink: a technique for hyperlinking from real paper to electronic content

T Arai, D Aust, SE Hudson - Proceedings of the SIGCHI conference on Human factors in ..., 1997 - portal.acm.org

... miniature **video** camera and a tip switch. ... retrieved and displayed (or executed) — thus following the **link**. ... pieces of text from the **paper**, allows additional ...

Cited by 116 - Related articles - Web Search - BL Direct - All 2 versions

[PDF] ► Palette: a paper interface for giving presentations

SI Les Nelson, ER Pedersen, L Adams - Proceedings of the SIGCHI conference on Human factors in ..., 1999 - citeseerx.ist.psu.edu

... 9], **PaperLink** [1], and the Insight Lab [8] **link** online information ... uses barcodes in support of analysis of **video** and audio data by linking **paper** notes to ...

Cited by 79 - Related articles - View as HTML - Web Search - BL Direct - All 4 versions

Interacting with paper on the DigitalDesk- ►cam.ac.uk [PDF]

P Wellner - Communications of the ACM, 1993 - portal.acm.org

... addition is a face-to-face audio-video link through, for ... The image produced from a video camera and frame ... it represents a white sheet of paper with black ink ...

Cited by 736 - Related articles - Web Search - Library Search - BL Direct - All 10 versions

A multiple hypothesis approach to figure tracking- ►kfupm.edu.sa [PDF]

TJ Cham, JM Rehg - Computer Vision and Pattern Recognition, 1999. IEEE Computer ..., 1999 - ieeexplore.ieee.org

... This paper focuses on figure registration, which is the estimation ... they are used with a single video source ... Each link in a scaled prismatic model describes the ...

Cited by 261 - Related articles - Web Search - BL Direct - All 39 versions

A shot classification method of selecting effective key-frames for video browsing

H Aoki, S Shimotsuji, O Hori - Proceedings of the fourth ACM international conference on ..., 1997 - portal.acm.org

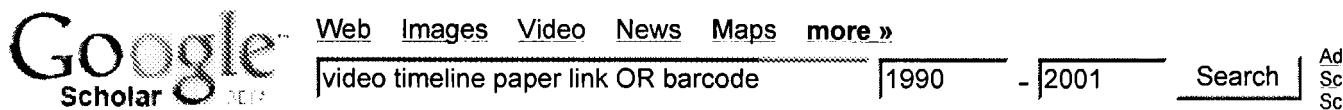
... effective way to use this observation to link and categorize ... In this paper, we introduce the concept of an ... key-frames extracted from long video sequence by ...

Cited by 74 - Related articles - Web Search - All 3 versions

Key authors: T Lakshman - D Heyman - S Floyd - R Bellcore - A Reibman

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An interactive comic book presentation for exploring video- ► [psu.edu](#) [PDF]

J Boreczky, A Grgenohn, G Golovchinsky, S ... - Proceedings of the SIGCHI conference on Human factors in ..., 2000 - portal.acm.org

... see Figure 3). Similarly, when the cursor is over the timeline, the corre ... This display allows users to explore the temporal properties of a video. ... Page 4. Papers ...

Cited by 83 - Related articles - Web Search - BL Direct - All 9 versions

Anecdote: a multimedia storyboard system with seamless authoring support- ► [psu.edu](#)

[PDF]

K Harada, E Tanaka, R Ogawa, Y Hara - Proceedings of the fourth ACM international conference on ..., 1997 - portal.acm.org

... often prefer pencil and paper to make design ... based systems (eg, HyperCard, ToolBook), timeline-based systems (eg ... for media synchronization with video and audio ...

Cited by 52 - Related articles - Web Search - All 6 versions

Comparing MMVIS to a timeline for temporal trend analysis of video data- ► [psu.edu](#) [PDF]

S Hibino, EA Rundensteiner - Proceedings of the working conference on Advanced visual ..., 1998 - portal.acm.org

... for analyzing temporal trends in real video data ... errors during analysis and 2) timeline subjects are ... however, subjects appreciate the familiarity of timelines. ...

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Video Mosaic: Laying out time in a physical space- ► [iri.fr](#) [PDF]

W Mackay, D Pagani - Proceedings of the second ACM international conference on ..., 1994 - portal.acm.org

... different linear sequences and insert or delete video clips with ease. However, paper storyboards pose some problems: q No link between paper and video. ...

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Dynamic effects in plasma wakefield excitation- ► [aps.org](#) [PDF]

... Katsouleas, M Letters, PRL Timeline, M Letter, LMH ... - IEEE Trans. Plasma Sci Phys Rev STAB, 1996 - APS

... URL: <http://link.aps.org/abstract/PRSTAB/v3/e061301> DOI: 10.1103/PhysRevSTAB ... the first and the last frames of the video accompanying this paper. ...

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The Vista environment for the coevolutionary design of user interfaces- ► [queensu.ca](#) [PDF]

J Brown, TCN Graham, T Wright - Proceedings of the SIGCHI conference on Human factors in ..., 1998 - portal.acm.org

... PAPERS I ... These views show the design and implementation of the gestalt timeline of the video annotator (figure 7). The Vista display is split into 379 ...

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Implementation and analysis of several keyframe-based browsing interfaces to digital video-

► [dcu.ie](#) [PDF]

H Lee, AF Smeaton, C Berrut, N Murphy, S Marlow, ... - Lecture Notes in Computer Science, 2000 - Springer

... consistently in the following figures throughout this paper. ... Dynamic Overview Browser (DO) Timeline Bar Browser ... Table 1. Fischlár Video Browsers and assigned ...

Cited by 26 - Related articles - Web Search - BL Direct - All 15 versions

Visualizing spatial data uncertainty using animation

CR Ehlschlaeger, AM Shortridge, MF Goodchild - Computers and Geosciences, 1997 - Elsevier

... 3 Realization #4 Figure 2. **Timelines** of animations ... the authors developed the lower

timeline in Figure 2 ... first two animations are from the **video**: "Random Fields ...

Cited by 79 - Related articles - Web Search - BL Direct - All 4 versions

A semi-automatic approach to home video editing- ►fxpal.com [PDF]

A Girgensohn, J Boreczky, P Chiu, J Doherty, J ... - Proceedings of the 13th annual ACM symposium on User ..., 2000 - portal.acm.org

... CONCLUSIONS In this **paper**, we have described a novel ... identify suitable clips in the raw **video** material. ... senting the clips into a storyboard **timeline** and change ...

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Active video watching using annotation

N Correia, T Chambel - Proceedings of the seventh ACM international conference on ..., 1999 - portal.acm.org

... The **paper** ends with some preliminary conclusions and ... **timeline** based, representation for the annotation sets. ... and publishing model for **video** annotation is very ...

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